Contracts to Be Let

Applications received until Apr. 10, 1915.

Competition

FOR ENTRANCE TO SCHENLEY PARK

Pittsburgh, Pa.

Prizes $500, $300 and $100. Open to engineers, architects and landscape architects. Applications to compete received until 1 P.M., April 10th, by

COMMITTEE ON COMPETITION,
634 Oliver Bldg., Pittsburgh.

Bids received until Apr. 12, 1915.

Reinforced Concrete Arches

Camden, N. J.

Separate sealed proposals are invited for constructing two reinforced concrete arches on Kings Highway for Camden County.

Plans and specifications are filed with the Engineering News, New York City; also with Fred. W. George, Clerk, Board Chosen Freeholders, Court House, Camden, N. J., who will mail a set to any address on receipt of $1.00 for each culvert. Bids will be received at Court House, Camden, immediately opened and publicly read on Monday, April 12th, at 11 A.M. Each bid must be accompanied by a certified check or cash in the sum of $1000.

FRED. W. GERCKE, Chairman Bridge Comm.
J. J. ALBERTSON, Co. Eng'r.
March 12, 1915.

Bids received until Mar. 22, 1915.

Repairs and Additions to Beach Protection

City of Cape May, N. J.

The City of Cape May, N. J., will open sealed bids at 8:00 P.M. on March 22, 1915, at the Council chamber of said city, for the renewal, repair, and additions to Boardwalk, Beach Drive and Bulkhead affording additional protection to Beach Front.

Approximate quantities are: 5000 piles, 11,000 tons of stone, erection of 2500 lineal ft. of Boardwalk, 6000 cu.yds. of fill and 2000 cu.yds. of foreign gravel.

Plans and specifications are on file in the office of the City Recorder. A deposit of $5.00 will be required for each set, which will be refunded upon the return of the unused drawings and specifications in good condition or upon the return of the drawings in case a bid is submitted.

The City reserves the right to reject any or all bids as may be for the best interest of the city.

L. C. ASHBURN,
Acting Chmn. of Com. on Streets and Highways.
THOMAS W. MILLET,
City Recorder.
L. E. MILLER, JR.,
City Engineer.

Bids received until Mar. 31, 1915.

Buttzville-Danville Road

Belvidere, Warren County, N. J.

Sealed proposals for the construction of a waterbound macadam road 5.755 miles long, known as the Buttzville-Danville Road, will be received by a Committee of the Board of Chosen Freeholders at the Courthouse in Belvidere, Warren County, New Jersey, on Wednesday, March 31, 1915, at 11:30 A.M.

Plans and specifications are on file and blank proposals may be obtained at the State Road Commissioner's office, Trenton, N. J., at the Danville Hotel, Danville, N. J., and at the Buttzville Hotel, Buttzville, N. J., also at the office of F. W. Salmon, County Engineer, Netcong, N. J.

Samples of approved materials are on file with the State Road Department and with the County Engineer and will be shown and explained to prospective bidders on request.

Plans and specifications may be purchased from the County Engineer upon payment of $5.00, which will not be refunded.

The right is reserved to reject any or all bids.

J. R. THATCHER, Director,
Board of Freeholders.

Bids received until Mar. 24, 1915.

Notice to Paving Contractors

Charleston, W. Va.

Sealed proposals will be received by the Board of Affairs of Charleston, West Virginia, until 10 o'clock a.m., Wednesday, March 24th, 1915, for curbing and paving fifteen (15) streets in the city of Charleston, West Virginia, containing approximately 40,700 ft. curb and 71,640 sq.yds. paving.

All well known classes of paving material will be considered.

Payments will be made in cash on monthly estimates.

A certified check payable to the order of Treasurer of The City of Charleston, amounting to two and one-half (2½) per cent. of bid, guaranteeing that successful bidder will enter into contract and furnish satisfactory bond to the amount of fifty (50) per cent. of the bid, must accompany each proposal.

The Board of Affairs reserves the right to reject any and all bids.

For plans and specifications or further information, apply to G. S. Brown, city engineer, Loewenstein building, Charleston, West Virginia.

By order of the Board of Affairs.

O. A. PETTY, President.

Bids received until Mar. 31, 1915.

Bloomsbury-Still Valley Road

Belvidere, Warren County, N. J.

Sealed proposals for the construction of a waterbound macadam road 2.91 miles long, known as the Bloomsbury-Still Valley Road, will be received by a Committee of the Board of Chosen Freeholders at the Courthouse in Belvidere, Warren County, New Jersey, on Wednesday, March 31, 1915, at 2:00 P.M.

Plans and specifications are on file and blank proposals may be obtained at the State Road Commissioner's office, Trenton, N. J., at the Bloomsbury Hotel, Bloomsbury, N. J., and at the Union Square Hotel, Phillipsburg, N. J., also at the office of F. W. Salmon, County Engineer, Netcong, N. J.

Samples of approved materials are on file with the State Road Department and with the County Engineer and will be shown and explained to prospective bidders on request.

Plans and specifications may be purchased from the County Engineer upon payment of $5.00, which will not be refunded.

The right is reserved to reject any or all bids.

J. R. THATCHER, Director,
Board of Freeholders.

Bids received until April 1, 1915.

Disposal of Garbage

Wilmington, Delaware.

Sealed proposals, accompanied by plans and specifications for the disposal of garbage of the City of Wilmington, Delaware, will be received by the Board of Health, at their office, 6th and King Sts., until 3 p.m. April First, 1915, at which time and place the proposals will be opened and publicly read.

The contract to be let, will be for a term of Nine years, beginning June First, 1915. The amount of garbage to be disposed of, approximates, 14,000 tons, yearly.

Each proposal submitted, must be accompanied by a certified check upon a Bank or Trust Company doing business in the City of Wilmington, Delaware for the sum of Five Hundred Dollars ($500), drawn to the order of the Mayor and Council of Wilmington, Delaware.

General specifications and bidding blanks may be obtained from Mr. J. Austin Ellison, Secretary of the Board of Health after March First, 1915.

The right is reserved to award the contract under that proposal, the acceptance of which will in the judgment of the Board of Health best secure the efficient performance of work and to reject any or all bids.

BOARD OF HEALTH,
J. Austin Ellison, Secretary.

Bids received until Apr. 6, 1915.

Electric Light Improvements

Kinston, N. C.

Sealed Proposals will be received until 5 P.M. of April 6, 1915, by the Mayor and City Council of Kinston, N. C., for Electric Light Plant Improvements.

New equipment includes 300 K.W. engine type generators, two belted generators, switchboard, 450 H.P. four-valve engine, condenser, centrifugal pump and motor, return tubular boilers. Bids on alternates to the above will be considered.

Building construction consists of extension to existing structures, station for centrifugal pumps, and about 1000 feet of terra cotta and cast-iron pipe line.

Each proposal must be accompanied by a certified check for not less than five per cent. of the amount of the proposal.

All proposals must be upon forms provided by the City.

The right is reserved to reject any or all bids.

Specifications, Proposal Form, and Plans will be on file in the office of the City Clerk at Kinston, N. C., and may be obtained from the office of the Consulting Engineer in Charlotte, N. C., upon application, accompanied by payment of five dollars, which will be refunded when Specifications and Plans are returned in good condition within thirty days after the date of receiving proposals.

FRED I. SUTTON, Mayor.
W. B. COLEMAN, Clerk.

Consulting Engineer:
GILBERT C. WHITE, Charlotte, N. C.

Bids received until Mar. 26, 1915.

Aluminum Sulphate

Office of Superintendent City Water Works,
Room 112, City Hall.
Richmond, Va., March 12, 1915.

SEALED PROPOSALS will be received at this office until 12 M. March 26, 1915, for furnishing eight hundred (800) tons aluminum sulphate, high basicity, for water clarification, containing from seventeen to twenty-two per cent. aluminum oxide, delivered f.o.b. Korah Station, Chesapeake & Ohio Railway, in barrels, at such time and in such quantity as the superintendent may require.

Further information can be obtained from this office.

The Administrative Board reserves the right to reject any or all proposals, or any part of any or all proposals, also to increase or decrease the specified quantities twenty per cent.

A certified check for two hundred dollars, payable to the City Treasurer, must accompany each bid.

Proposals must be submitted in sealed envelopes, containing the name and address of the bidder, directed to the Administrative Board, and in the lower left-hand corner must be written "Proposals for Aluminum Sulphate."

Bond will be required on contract.

E. E. DAVIS, Superintendent.

Bids received until Mar. 22, 1915.

Seawall, Bulkhead, Etc.

Bradley Beach, N. J.

Proposals for furnishing materials and labor for the construction of about 66 lineal feet of either reinforced concrete or creosoted timber sea-wall; about 140 lineal feet of creosoted or plain timber jetty and bulkhead; about 800 lineal feet of wrought-iron outlet pipe, with special fittings laid into the ocean from sewage tank; all of said work being located on the beach at the easterly end of Ocean Park Avenue, in the borough of Bradley Beach, N. J., will be received at the Council Chamber at the corner of Main Street and La Reine Avenue at 8 p.m., Monday, the 22d day of March, 1915.

Plans and specifications may be obtained at the office of the borough clerk, 624 Brinley Avenue.

Bidders will be required to deposit with their proposal a certified check in the amount of $500 as a guarantee that they will enter into a contract if awarded all or any part of such work.

The Common Council reserves the right to accept or reject any or all bids, and to waive any informality in the bids received where it is for the interest of the Borough so to do.

Dated 8th day of March, 1915.

CHARLES F. BURNEY, Borough Clerk.

U. S. ENGINEER OFFICE, Room 325 Custom House, New Orleans, La., Mar. 13, 1915.—Sealed proposals for furnishing and delivering about 10,000 cubic yards stone at South Pass and Southwest Pass, Mississippi River, will be received at this office until 11 A.M., April 13, 1915, and then publicly opened. Information on application. EDWARD H. SCHULZ, Maj., Engrs.

Bids received until Mar. 31, 1915.

Sale of Paving Warrants

Fargo, N. Dak.

Paving Warrants of the City of Fargo for about $140,000.00 will be sold March 31, 1915.

Bids will be received by the Board of Commissioners until 10:30 a.m., March 31, 1915, for the purchase of these warrants. Certified check for $500.00, payable to the City, shall accompany each bid.

Each bidder shall state:

1. The lowest rate of interest at which these warrants will be taken at par.

2. The premium, if any, which will be paid for the warrants if issued with six (6) per cent. interest, payable annually.

3. Separate proposal for purchase of warrants if issued with privilege of prior payment.

This issue of warrants will mature in annual installments extending over a period of fifteen (15) years; will have annexed coupons representing annual interest and will be in denominations of $500 or $1,000, as the City Commission may decide at the time bids are considered.

The warrants will be issued and delivered to the successful bidder June 1st of the current year. Bids may be submitted for a part of this issue of warrants.

A. R. WATKINS, City Auditor.

Dated, March 12, 1915.

Bids received until Apr. 5, 1915.

Street Paving

Cumberland, Md.

SEALED proposals addressed to the Mayor and City Council of Cumberland, Md., will be received at the Office of the City Clerk, City Hall, endorsed "Proposals for Grading, Curbing, Paving and otherwise Improving Streets, under Cumberland City Paving Bonds," on or before 9:30 A.M. Monday, April 5th, 1915.

There are sixteen (16) Streets to be paved with Brick on Concrete Base, approximately there will be 57,000 square yards, requiring about two and a half million bricks.

BIDS may be made for the whole number of Streets, or for each street separately, to suit Bidders.

Plans and Specifications can be procured at the Office of the City Engineer, for which $1.00 per street will be charged, to be refunded on return of Plans in good order. A certified check for $50.00 must accompany Bid on each Street, to be returned after award of successful Bidder is announced.

Bids must be in the hands of the City Clerk, at the City Hall, Cumberland, Maryland, not later than 9:30 A.M., April 5th, at such time and place said Bids will be opened.

The Mayor and City Council of Cumberland reserve the right to reject any and all bids.

JAMES P. GAFFNEY, City Engineer.

Bids received until Apr. 6, 1915.

To Bridge Contractors

Lake Charles, La.

Sealed bids will be received by the Police Jury, Calcasieu Parish, at the office of the Highway Department, Court House, Lake Charles, La., up to 10 o'clock a.m. April 6, 1915, for the construction of a steel highway swingbridge over Black Bayou on Highway No. 4.

Bids will be accepted on the following alternatives:

(1) The fabrication and delivery f.o.b. Lake Charles, of steelwork and turning machinery.

(2) The erection of the steelwork and machinery and the construction of the substructure.

(3) The supply and erection of both superstructure and substructure complete.

Plans and specifications are on file at the office of the Highway Department and copies of same may be obtained upon payment of five dollars ($5.00) which will be refunded upon receipt of a bona fide bid and the return of the plans and specifications.

Each bid must be accompanied by a certified check drawn on a bank doing business in Lake Charles and made payable to the Treasurer, Calcasieu Parish, for 5 per cent. of the amount of the bid.

The Police Jury reserves the right to reject any or all bids.

E. C. HOUSE, Clerk of the Police Jury.

U. S. ENGINEER OFFICE, Chicago, Ill., Feb. 27, 1915.—Sealed proposals for dredging in Indiana Harbor, Ind., will be received at this office until 10 a.m. March 29, 1915, and then publicly opened. Information on application. W. V. JUDSON, Lt. Col., Engineers.

Bids received until Mar. 26, 1915.

Dairy Building

Delhi, N. Y.

Sealed proposals for construction; heating; plumbing and drainage and electric work for Dairy Building for the State School of Agriculture and Domestic Science at Delhi, N. Y., will be received by Mr. William H. Maynard, President of the Board of Control, State School of Agriculture and Domestic Science, at the County Clerk's office, Delhi, N. Y., until 2 o'clock P.M. on Friday, March 26, 1915, when they will be publicly opened and read. Proposals shall be enclosed in an envelope furnished by the State Architect, sealed and addressed, and shall be accompanied by a certified chick in the sum of $1,150.00 for construction work; in the sum of $350.00 for heating work; in the sum of $160.00 for plumbing and drainage work and in the sum of $40.00 for electric work. The contractors to whom the awards are made will be required to furnish surety company bond in the sum of 50% of the amount of contract within thirty (30) days after official notice of award of contract and in accordance with the terms of specifications Nos. 2183, 2178, 2179 and 2180. The right is reserved to reject any or all bids. Drawings and specifications may be consulted at the office of Mr. William H. Maynard, County Clerk, Delhi, N. Y.; at the New York office of the Department of Architecture, Room 1224, Woolworth Building, and at the Department of Architecture, Capitol, Albany, N. Y. Drawings and specifications and blank forms of proposal may be obtained at the Department of Architecture, Capitol, Albany, N. Y., upon the deposit of a certified check in the sum of $10.00 made payable to the State of New York, for each set of plans and specifications, which check will be returned when plans and specifications are sent back in good condition to the State Architect, Lewis F. Pilcher, Capitol, Albany, N. Y.

W. H. MAYNARD,
President, Board of Control.

Bids received until Apr. 6, 1915.

Pumping Station and Pump

Lynchburg, Va.

Sealed proposals for the Installation of an Emergency Pumping Station and Booster Pump, addressed to the Council Committee on Water, and suitably endorsed, will be received by the Council Committee on Water, at Lynchburg, Va., until 12 noon, of Tuesday, the 6th day of April, 1915, and on that day in the Committee Room, Krise Building, the bids will be publicly opened and read.

Each bid must be accompanied by a certified check for five per cent. (5%) of the amount bid, made payable to Y. P. Marshall, Chairman of the Water Committee. This check will be returned to the bidder unless he fails to execute the contract should it be awarded to him.

A bond for twenty-five per cent. (25%) of the contract price will be required for the faithful performance of the contract, the sureties to be a substantial Surety Company satisfactory to the Water Committee, and authorized by law to do business in the State of Virginia. No personal surety will be accepted.

The Items of work to be done are as follows:

Division No. 1—Two brick buildings.

Division No. 2—Three centrifugal pumps.

Division No. 3—Transformers, motors, and other electrical equipment.

Division No. 4—Cast iron pipe, valves, etc.

Division No. 5—Liquid chlorine apparatus.

The Water Committee reserves the right to reject any or all bids should they deem it to be for the interest of the City of Lynchburg to do so.

H. L. SHANER, City Engineer.

U. S. ENGINEER OFFICE, Newport, R. I., Feb. 27, 1915.—Sealed proposals for dredging in Providence Harbor, R. I., will be received at the U. S. Engineer sub-office, Federal Building, Providence, R. I., until 12 o'clock noon, Mar. 30, 1915, and then publicly opened. Information on application. JOHN MILLIS, Col., Engrs.

U. S. ENGINEER OFFICE, Pittsburgh, Pa., March 6, 1915.—Sealed proposals for building a fire-proof power-house; furnishing and installing one 115-H.P. boiler, one 15-H.P. boiler, one steam-driven air compressor and two air receivers, piping and accessories, and furnishing one feed water heater, one feed water pump and one service water pump at Dam No. 10, Ohio River, will be received at this office until 12 M. (Eastern Standard time), April 5, 1915, and then publicly opened. Information on application. HAROLD C. FISKE, Captain, Engrs.

Bids received until Apr. 2, 1915.

Sewage Disposal Works, Pumping Station and Machinery

York, Pa.

Sealed proposals will be received by C. P. Shreiner, City Clerk, at City Hall, York, Pa., until 1:30 P.M., Apr. 2, 1915, for constructing Sewage Disposal Works and Pumping Station under "Contract A" and furnishing and installing machinery under "Contract B."

"Contract A" includes 3 settling tanks with outside measurements of about 83 feet square and 28 feet deep, with appurtenances, and a pumping station building, having concrete sub-structure and brick super-structure 26 feet wide by 58 feet long.

"Contract B" will include the furnishing and installing of all operating machinery including 3 five million gallon, motor driven pumps, 1 ten million gallon, gasoline engine driven pump, and various appurtenances.

Proposals for "Contract A" must be accompanied by a certified check on a National Bank for Twenty-five Hundred ($2,500) Dollars.

Proposals for "Contract B" must be accompanied by a certified check for Five Hundred ($500) Dollars.

The City reserves the right to reject any or all bids.

Plans and specifications may be obtained at the office of George W. Fuller, Consulting Engineer, 170 Broadway, New York, and at the office of the City Engineer, City Hall, York, Pa., upon a deposit of Ten ($10) Dollars, which sum will be refunded if the plans and specifications are returned in good condition within two weeks after bids are received.

Bids must be made on the Blank Form of Proposal bound with the specifications, and in case it is desired to bid on both contracts each bid shall be made in a separate pamphlet

C. A. BOYER,
Superintendent of Streets & Public Improvements,
City Hall, York, Pa.

Bids received until Mar. 31, 1915.

Animal Building

Rosebank, N. Y.

Sealed proposals for Animal Building, for the Port of New York, at the Quarantine Station, Rosebank, Staten Island, N. Y., Construction, Heating, Plumbing and Drainage and Gas Piping and Electric Work, will be received by Dr. Joseph J. O'Connell, Health Officer of the Port of New York, Quarantine Station, Staten Island, N. Y., until March 31, 1915, at 11:30 A.M., when they will be publicly opened and read. Proposals shall be enclosed in an envelope furnished by the State Architect, sealed and addressed and shall be accompanied by a certified check in the sum of $300.00 for Construction Work, $30.00 for Heating Work, $70.00 for Plumbing, Drainage and Gas Piping and $50.00 for Electric Work. Contractors to whom the awards are made will be required to furnish surety company bond in the sum of 50% of the amount of contract within thirty days after official notice of award of contract and in accordance with the terms of specifications Nos. 2133, revised, 2148, 2149 and 2150. The right is reserved to reject any or all bids. Drawings and specifications may be consulted at the office of the Health Officer, Port of New York, Rosebank, Staten Island, N. Y.; at the New York office of the Department of Architecture, Room 1224, Woolworth Building, and at the Department of Architecture, Capitol, Albany, N. Y. Drawings and specifications and blank forms of proposal may be obtained at the Department of Architecture, Capitol, Albany, N. Y., upon the deposit of a certified check in the sum of $10.00 made payable to the State of New York for each set of plans and specifications, which check will be returned if plans and specifications are sent back in good condition to the State Architect, Lewis F. Pilcher, Capitol, Albany, N. Y.

Bids received until Mar. 29, 1915.

Cast Iron Pipe, Hydrants and Valves

Lewistown, Mont.

Sealed proposals will be received up to 8 o'clock P.M. of March 29th, A.D. 1915, at the office of the City Clerk, Lewistown, Montana, for

100 Ton C.I. Pipe
21 Valves
8 Hydrants

Specifications on application.

A. C. BIRKLAND, City Engineer.

Bids received until Mar. 23, 1915.

Highway Work

OFFICE OF THE STATE COMMISSION OF HIGHWAYS

Albany, N. Y.

Sealed proposals will be received by the undersigned at their office, No. 55 Lancaster Street, Albany, N. Y., at 1 o'clock p.m. Tuesday, March 23rd, 1915, for the improvement of Highways in the following counties:

Allegany (approx. length 9.52); Cattaraugus, 2 highways (6.98, 5.35); Columbia (approx. length 4.97); Erie (approx. length 4.48); Franklin (approx. length 0.22); Jefferson, 3 highways (2.86, 2.40, 0.51); Monroe (approx. length 0.66); Niagara (approx. length 8.32); Rensselaer (approx. length 2.11); Putnam (approx. length 0.13); Sullivan (approx. length 8.51).

Maps, plans, specifications and estimates may be seen and proposal forms obtained at the office of the Commission in Albany, N. Y., and also at the office of the Division Engineers in whose division the road is to be constructed. The addresses of the Division Engineers and the counties in which they are in charge will be furnished on request.

The especial attention of bidders is called to "INFORMATION FOR BIDDERS" in the itemized proposal, specifications and contract agreement.

EDWIN DUFFEY, Commissioner.

I. J. MORRIS, Secretary.

Bids received until Mar. 26, 1915.

Water Works Supplies

Office of Superintendent City Water Works,
Room 112, City Hall.
Richmond, Va., March 12, 1915.

SEALED PROPOSALS will be received in this office until 12 M. March 26, 1915, for the following supplies and contract work:

Gate valves, cast-iron pipe, special castings, three-nozzle fire hydrants, valve boxes, meters, meter boxes, pig lead, wiping solder, brass work, lead pipe and hauling.

Specifications, plans and information can be obtained in this office, and bids must be made on form of proposal furnished by this office.

The Administrative Board reserves the right to increase or decrease the specified quantities twenty per cent. and the right to reject any or all proposals. A certified check for $100, payable to the City Treasurer, must accompany each bid. Bond will be required on each contract awarded.

E. E. DAVIS, Superintendent.

FORT MONROE, Va., Mar. 17, 1915.—Sealed proposals will be received here until 12 M., Apr. 15, 1915, for furnishing material and labor required in Constructing Alterations of Casemates and Addition to Quartermaster Stables, including Plumbing and Electric Lighting. Information furnished on application to QUARTERMASTER.

U. S. ENGINEER OFFICE, Duluth, Minn., Feb. 24, 1915.—Sealed proposals for constructing and delivering complete the steel hull, 4½ yard dipper dredge, "Col. D. D. Gaillard," will be received at this office until 10 o'clock a.m., March 26, 1915, and then publicly opened. Information on application. E. D. PEEK, Major, Engrs.

U. S. ENGINEER OFFICE, 540 Federal Building, Buffalo, N. Y., March 16, 1915.—Sealed proposals for dredging in Niagara River, N. Y., will be received at this office until 11 a.m., April 15, 1915, and then publicly opened. Information on application. J. G. WARREN, Col., Engrs.

Bids received until Apr. 3, 1915.

Repaving South Main Street

Phillipsburg, N. J.

Sealed bids will be received by the Commissioners of The Town of Phillipsburg, at the Town Hall, Phillipsburg, New Jersey, until 2 o'clock p.m., April 3rd, 1915, for the repaving of South Main street, upon the present concrete foundation.

Schedule A for 10,500 sq.yds. vitrified block.
Schedule B for 20,800 sq.yds. vitrified block.
Schedule C for 10,500 sq.yds. wood block.
Schedule D for 20,800 sq.yds. wood block.

Specifications, blanks, proposals and instructions to bidders may be had at The Town Hall.

All bids must be accompanied by a certified check for $500.00 made payable to the Treasurer of the Town of Phillipsburg as a guarantee for the execution of contract and bond satisfactory to The Board of Commissioners of The Town and approved by the Town Solicitor.

The Commissioners reserve the right to reject any or all bids.

ROBERT P. HOWELL,
Commissioner of Streets and Public Improvements.

Bids received until Apr. 7, 1915.

Main Intercepting Sewer

Fitchburg, Mass.

Sealed proposals will be received by the Board of Sewage Disposal Commissioners at their office, 745 Main Street, Fitchburg, Mass., until 3 o'clock p.m., Wednesday, April 7, 1915, for the construction of Section 7 of the main intercepting sewer covering a distance of about 3400 feet. Plans and specifications may be obtained at the office of the Commission upon the deposit of $5.00. The right is reserved to reject any and all bids, or to accept any bid should the Commissioners deem it for the interest of the city so to do.

ARTHUR H. LOWE,
DAVID M. DILLON,
DANIEL A. BOYLE,
Sewage Disposal Commissioners.

DAVID A. HARTWELL,
Chief Engineer.

U. S. ENGINEER OFFICE, Nashville, Tenn., March 13, 1915.—Sealed proposals for construction and erection of steel gates for Locks B and C, Cumberland River, will be received at this office until 11 a.m., April 12, 1915, and then publicly opened. Information on application. H. BURGESS, Major, Engineers.

GOVERNORS ISLAND, N. Y. H., Mar. 15, 1915.—Sealed proposals, in triplicate, for furnishing Forage and Straw (three months' and a year's supply) and FUEL, GASOLINE, MINERAL OIL, BEEF and MUTTON, required in Eastern Department during year commencing July 1, 1915, will be received here until 11 a.m., April 14, 1915. Information furnished on application to Department Quartermaster.

U. S. ENGINEER OFFICE, Pittsburgh, Pa., March 4, 1915.—Sealed proposals for furnishing and delivering steel maneuver-boat hulls, steamboat and hand capstans, derricks, kevels, spuds, etc., for Dams Nos. 10, 12, 15, 19, 20 and 29, and engines and electric light plants, etc., for maneuver boats at Dams Nos. 10 and 29, Ohio River, will be received at this office until 12 M. (Eastern Standard Time), April 3, 1915, and then publicly opened. Information on application. HAROLD C. FISKE, Captain, Engrs.

Classified Advertising

POSITIONS WANTED

Mechanical and Electrical Engineers

LONG EXPERIENCE with dredging and contractors' plants; design, construction and maintenance; now engaged. P. W. 983, Eng. News.

MECHANICAL ENGINEER, designer, draftsman, desires position with first class firm. P. W. 18, Eng. News.

MECHANICAL ENGINEER; good technical education, seven years' experience drafting, designing and working out of drafting-room system; experienced in English and German correspondence; first-class references; New York interview. P. W. 996, Eng. News.

MECHANICAL ENGINEER, graduate, two years' designing automatic match machinery and three years of engineering and designing with cement company. P. W. 8, Eng. News, Chicago.

Civil Engineers

CIVIL ENGINEER, 27; five years' experience; railroad, city, land, surveys; building, bridge, construction; river improvement; competent construction man; efficient instrumentman; will consider any offer; location immaterial. P. W. 961, Eng. News, Chicago.

CIVIL ENGINEER, graduate; 12 years' practical experience with consulting engineers and utility companies; waterworks and other utilities; investigations, reports, design, construction, appraisals; references. P. W. 958, Eng. News.

CIVIL ENGINEER; with 12 years' experience on railroad location and construction, sewers, reinforced concrete construction and municipal engineering is open for engagement. Associate Member, American Society of Civil Engineers. P. W. 930, Eng. News, Chicago.

CIVIL ENGINEER; 33, Assoc. Mem. Am. Soc. C. E., Mem. Am. Soc. for Test. Mats., 15 years' technical training and broad field and office experience; structures; ship canal, locks, docks, dams, breakwaters, electric railways. Concrete testing expert. P. W. 987, Eng. News, Chicago.

CIVIL ENGINEER, 9 years' experience, surveys, reports, buildings, water works, sewers, principal assistant on large dam and for past three years principal assistant on river improvement, A-1 references. Education M. I. T. P. W. 988, Eng. News.

GRADUATE CIVIL ENGINEER; six years' varied experience in design and construction work with engineers and contractors. P. W. 27, Eng. News.

GRADUATE CIVIL ENGINEER, 21, single, one year's experience, wishes to change to firm offering good opportunities; not afraid of hard work. P. W. 9, Eng. News.

CIVIL ENGINEER; college graduate; Assoc. M. Am. Soc. C. E.; 10 years' experience, design and construction, docks, bridges, roads, canals, surveys. P. W. 21, Eng. News.

CIVIL ENGINEER, 30; eight years' experience in swamp drainage, sewers and general municipal engineering. P. W. 22, Eng. News.

CIVIL ENGINEER, 27, technical graduate, desires change; held responsible positions in irrigation location and construction, railway maintenance, cement and concrete work; now in Government service. P. W. 24, Eng. News.

CIVIL ENGINEER, graduate, three years' general experience, foundations, concrete, railroad work, desires position with consulting engineer, general practitioner or contracting concern. P. W. 25, Eng. News.

GRADUATE CIVIL ENGINEER, available Apr. 1; no particular qualifications, wants position: assistant engineer, transitman or general assistant; has been engaged in various kinds of work, railroad, heavy construction, concrete; can handle men; speaks two European languages; prefers New York, but would go abroad, or anywhere in the United States. P. W. 26, Eng. News.

Bridge and Structural

BRIDGE AND STRUCTURAL ENGINEER with long experience holding responsible positions wishes to change location. P. W. 986, Eng. News.

STRUCTURAL ENGINEER, graduate; 10 years' experience on bridges, buildings, subways, special structures. Can take charge of work. P. W. 993, Eng. News.

STRUCTURAL ENGINEER; fifteen years' general experience desires position as designer or squad man. P. W. 995, Eng. News.

STRUCTURAL ENGINEER, graduate, 10 years' experience designing bridges, industrial plants, water-supply, filtration, hydro-electric power. P. W. 10, Eng. News.

STRUCTURAL ENGINEER, estimator and checker, desires position; 10 years' experience with leading firms in New York; mill and office buildings a specialty. P. W. 3, Eng. News.

STRUCTURAL AND CONCRETE ENGINEER with long experience is open for position; best references. P. W. 5, Eng. News.

EXPERIENCED BRIDGE AND STRUCTURAL engineer, university graduate, wishes engagement in the Pittsburgh district. P. W. 30, Eng. News.

AN A-1 STRUCTURAL MAN; 6 years foreman templet shop, 7 years superintendent small shop, 8 years general foreman shop fabricating 20,000 tons per year; open for engagement; best of references. P. W. 17, Eng. News.

Surveyors

RAILROAD RODMAN TOPOGRAPHER, just off 10 months' job; wants similar position. P. W. 922, Eng. News.

Draftsmen

DRAFTSMAN, five years' experience, technical education, reliable, industrious, desires a change; New York interview. P. W. 998, Eng. News.

Superintendents, Etc.

AS SUPERINTENDENT, general or templet shop foreman of bridge and structural plant, 20 years' experience. Will go anywhere. Reference. P. W. 991, Eng. News.

BY CONCRETE EXPERT, as superintendent or foreman; wide experience in excavating, form building and all kinds of concrete work, including road paving bridges and culverts, retaining walls and buildings. P. W. 970, Eng. News, Chicago.

UNIVERSITY GRADUATE, 25, wants position in railroad maintenance work; good references. P. W. 982, Eng. News, Chicago.

ENGINEER-SUPERINTENDENT, broad experience on dredging contracts, plant design and operation, and examinations on bids; reference to past and present engagements. P. W. 984, Eng. News.

EXPERIENCED FOREMAN (with or without gang) seeks position on construction work; best reference. P. W. 11, Eng. News.

AN ENGINEER OR SUPERINTENDENT of municipal affairs or to act as such on public-utility construction for private or public corporation; by former city manager and municipal engineer with technical education and six years' experience in every class of municipal activity—four as city engineer and two as city manager; will furnish data based on my experience of two years as city manager to cities desirous of adopting the city manager plan; employed at present as engineer of municipal affairs at salary of $1800; best of references; can report at once. Kenyon Riddle, Abilene, Kan.

DIPPER DREDGE SUPERINTENDENT, 10 years' wide experience, three full charge, will operate; best references. P. W. 6, Eng. News.

SUPERINTENDENT having 15 years' experience in charge of steam-shovel work on railways and canals construction wishes position by Apr. 1 with reliable contractor. P. W. 7, Eng. News, Chicago.

YOUNG MAN wishes position as concrete foreman or carpenter foreman; 7 years' experience; good reference. P. W. 14, Eng. News.

SUPERINTENDENT of paving; 22 years' experience with all kind of paving; a thorough organizer; temperate; P. W. 15, Eng. News.

GRADUATE ENGINEER, available immediately; 8 years' experience, 5 in charge of work; reinforced concrete, hydro-electric developments, including investigation and construction, brick pavements and railroads; excellent references. P. W. 16, Eng. News.

SUPERINTENDENT of construction with 15 years' experience on heavy steam shovel work, earth and rock; good organizer; excellent references. P. W. 23, Eng. News.

SUPERINTENDENT or foreman; 20 years' practical experience on construction work; good organizer and a hustler. J. F. Naughton, 54 Cameron St., Rochester, N. Y.

CONTRACTING ENGINEER; 29, married, technical education; 5 years as principal assistant and right hand man on $5,000,000 of work to vice-president and chief engineer of large firm of contracting engineers on heavy pneumatic open foundation bridge work and general contracting; position required engineering and executive ability. P. W. 19, Eng. News.

FOREMAN with several years' experience as timekeeper, paymaster and cost keeper wants position on general contract work in East; age, 30; best references. P. W. 20, Eng. News.

CITY MANAGERSHIP by a reputable civil engineer who can qualify as a competent city and highway engineer, having a practical experience of 12 years as an assistant and chief railroad engineer; six years as a city engineer; nine years as a chief highway engineer; for the past six years, and at present, engineer and promoter for one of the largest paving contractors in the U. S.; I am middle-aged and very active. P. W. 29, Eng. News, Chicago.

FIRST-CLASS GENERAL BUILDING construction estimator desires position in or near N. Y. City; 14 years' experience. P. W. 4, Eng. News.

SUPERINTENDENT OF CONSTRUCTION; 35; 15 years' practical experience reinforced-concrete bridges, industrial buildings, dams, viaducts, etc.; good organizer; can produce results; best references; anywhere. P. W. 999, Eng. News.

SUPERINTENDENT OR GENERAL FOREMAN; past four years in charge unit methods of construction; also general experience in industrial buildings construction; age 31; unmarried; will go anywhere. P. W. 28, Eng. News, Chicago.

EXPERIENCED MAN (29) wants employment; urgent; chainman, rodman, timekeeper, stock clerk, night watchman, laborer or clerical work. G. L. M., 10 Pratt Ave., Mt. Vernon, N. Y.

POSITIONS OPEN

LETTERER using Reinhart system on engineering drawings and maps; neat work essential; preferably one experienced in preparing work for reproduction; state age, salary, experience, etc., and submit sample if possible. P. 1, Eng. News.

A MAN to fill the position of estimator in general contracting work and building construction, in country, 50 miles from New York; must have thorough knowledge of the work and furnish satisfactory references; permanent position for the right man. P. 997, Eng. News.

Employment Agencies

The Employment Agencies advertising in this paper agree to refund any registration fee on demand any time within the first six months when no position is secured.

TECHNICAL ENGINEERS in every line for available positions; employers and applicants write The Toledo Engineering Agency, Toledo, Ohio.

EFFICIENCY SOCIETY OF AMERICA, Pittsburgh, Penn., begs to announce to employers that the membership maintains a free employment exchange, technical and commercial lines. Inquiries invited. Not an agency.

LABOR BUREAUS

SPECIAL ADVANTAGES to contractors or others employing skilled or unskilled laborers. Commissary privileges optional. Central Labor Agency, 139 Mulberry St., New York. (Telephone 8970 Canal.)

EXPERIENCED FOREMAN seeks position on construction work; will furnish all necessary labor; best reference. L. B. 12, Eng. News.

WANTED

AGENTS AND SALESMEN

ENGINEERING REPRESENTATIVES—Agents with offices in all parts of the United States to represent the Thomas Method of reinforced concrete bridge construction. W. M. Thomas, 915 Hibernian Bldg., Los Angeles, Calif.

YOUNG MAN with large engineering experience wishes to represent reliable manufactures of building or mining products in the State of Colorado. Address B. S. Heyer, 1220 North Custer St., Colorado Springs, Colo.

MISCELLANEOUS

CHARTS FOR REINFORCED-CONCRETE BEAM DESIGN according to report of Joint Committee (Nov. 20, 1912). Rational and economical. Price, 40 cents. C. Siquot, 6 East German St., Baltimore, Md.

BOOKS

PROCEEDINGS OF THE NATIONAL CONFERENCE ON CONCRETE ROAD BUILDING, a 210-page volume (6x9 in.), being a digest of present knowledge and best practice represented by the reports and discussions of the country's leading highway engineers. The remaining copies will be sold for 50c. each, postage prepaid. Address Secretary, National Conference on Concrete Road Building, 208 South LaSalle St., Chicago.

BUSINESS OPPORTUNITIES

ENGINEER'S GRAND OPPORTUNITY—Long-established young contractor with unquestionable reputation and expert knowledge in the economical construction of public and private work and with exceptional ability in securing and executing profitable contracts desires to meet young graduate civil engineer who is willing to learn the contracting and construction line and take an active interest with an investment of from $15,000 to $25,000. B. O. 872, Eng. News.

LONG ESTABLISHED ENGINEERING BUSINESS—General engineering business established more than 25 years, in a city of 13,000; has instruments and field notes and old plans continuous since established; also large collection of field notes and plans for more than 100 years. B. O. 2, Eng. News.

Classified List

Second Hand Machinery, Material and Equipment

For Sale—Exchange—Rent—Wanted

Items not otherwise marked list equipment for sale.

Rates: Less than 4 insertions 55 cents per line—4 to 11 insertions 50 cents per line—12 or more insertions 45 cents per line.

N

ADDRESSES

BECKWITH, J. S., 108 Park Way, N. S., Pittsburgh, Pa.
BRADEN, James C., 26 Cortlandt St., N. Y. City.
CARPENTER & Boxley & Herrick, Inc., 4th Ave. and 70th St., B'klyn, N. Y.
CONCORD CO., 117 Main St., Flemington, N. J. (Tel. 81 L.).
CONTRACTORS' Service Co., 50 Church St., N. Y. City.
DALLETT & CO., Harrison Bldg., Phila., Pa.
DOUGLAS, Geo. B., 29 Broadway, New York.
GIVIN Co., Herbert, 30 Church St., N. Y. City.
GRIMSHAW Co., Wm. B., 688 Drexel Bldg., Phila., Pa.
HITNER'S Sons Co., Henry A., Philadelphia, Pa.
HOISTING Engine Sales Co., 120 West 32d St., New York.
LINES FLYNN Co., Inc., 30 Church St., N. Y. City.
MARINE Metal and Supply Co., 167 South St., N. Y. City.
NEW RIVER Co., The, Macdonald, W. Va.
PIPE & Contractors Supply Co., 3 Dover St., N. Y. City.
SAMPSON Co., Geo. H., 13 Pearl St., Boston, Mass., and 42 B'way, N. Y. C.; or Winston & Co., Brown Station, N. Y.
SCHMIDT, Jr., & Co., C. G. A., Empire Bldg., Phila., Pa.
SOUTHERN Iron & Equipment Co., Atlanta, Ga.
STALLEY, G. T., Box 390, Cleveland, Ohio.
WHITNEY, O. R., 39 Cortlandt St., N. Y. C. (Cort. 6095).

AIR COMPRESSORS

2—Ingersoll-Rand, Cross Compound steam and air cylinders with Corliss valve gear 2500 cu. ft. capacity.—SAMPSON.

2—Ingersoll-Rand, Cross Compound Steam and Air Cylinders with Corliss valve gear 3300 cu.ft. capacity. Boilers and Condensers with this plant. All in good condition. Bargain.—SAMPSON.

1—4700 Cu. Ft. Rand B. B. 3 Compound Steam and Compound Air Compressor with Condenser.—SAMPSON.

Several second-hand air compressors, steam and belt driven, straight line and two stage of various sizes from 70 to 1300 cu. ft. capacities. Good condition.—SAMPSON.

1—22x22-13-¼x24, Sullivan, steam driven, class WB 2, straight line, 2 stage, cap., 1160 cu. ft., 1—24x24x30, McKiernan, class A, straight line, steam driven, cap. 1414 cu. ft.; 1—24x24-¼x30, Ingersoll, class A, steam driven, straight line, cap. 1223 cu. ft., 2—16x20-¼x16, Ingersoll-Sargeant, class H-1, duplex, steam driven, cap. 1540 cu. ft.—HITNER'S.

1 Blaisdell 16x10x10, 60 H.P., 342 cu.ft. First class condition.—THEO. SMITH & SONS CO., Jersey City, N. J.

Steam driven 3 Laidlaw-Dunn-Gordon duplex 2-stage, and 5 Norwalk tandem 2-stage, capacities 900 to 2100 cu.ft., condition excellent.—NEW RIVER.

3—24"x24"x30" Rand S. L. Price $1000 each.—L. F. SEYFERT'S SONS, INC., 437 N. 3rd St., Phila., Pa.

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1 Dederick continuous bailing press.—CONCORD.

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5—250 H.P. B. & W., 150 lbs. steam. Horizontal return tubular, 2—72"x20', 1—78"x20', 1—72"x18', 1—72"x15', 1—72"x14', triple riveted, butt strapped, 125 lbs. steam.—HITNER'S.

35, 60 and 80 H.P. loco. boilers—PIPE.

6—550 H.P. Altman Taylor B. & W. type, 150 lbs. pressure, complete with steel supporting structure—Arranged to set two in battery; one battery equipped with Taylor stokers.—HENRY R. KENT & CO., 141 Broadway, New York, N. Y.

2 New Marine, 10x11'; prompt delivery.—WHITNEY.

BONE MILL

3' Denmead bone mill with screen elevators.—CONCORD.

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Revolving bridge 137' long, 21' wide, plank flooring, hand rails, hand power, located at New York City; can be inspected before removal.—PIPE.

BUCKETS

1—1 yd. Theo. Smith Orange Peel.—PIPE.

5—¾ cu. yd. standard clam shells.—STALLEY.

Orange peel—¾, 1, 1¼, 1½ yd. capacity; clam shell—½ to 3 yd. capacity.—GIVIN.

1 "Haiss" ¾ yd. and 1 "Haiss" 1 yd. clamshell, in first-class shape; used short time. Digging teeth can be installed.—GEO. HAISS MFG. CO., 142nd St. and Rider Ave., N. Y. City.

CARS

[Standard Gauge]

45—80,000 lb. flat cars, cheap.—WHITNEY.

[36" Gauge]

100 Western 4-yd. dump and 26 Koppel steel concrete.—CARPENTER.

[24" Gauge]

1½ yd. Western with Vulcan Dinkey.—DALLETT.

10—1 yd. swivel end dump cars.—PIPE.

CRUSHERS

Farrel Jaw, 15x9, with screen and engine.—MARINE.

National Jaw, 14x8, on wheels.—MARINE.

Gyratory, Nos. 8, 7½, 6, 5, 4, 3.—GIVIN.

1 No. 2 Climax on trucks with 15' elevator with 18 H.P. mounted Climax portable engine and boiler.—BECKWITH.

[Wanted]

36x18 or 24 Farrell Jaw.—SCHMIDT.

DERRICKS

1 Steel stiff leg, 70' boom; 1 steel guy, 70' boom, 25 tons cap.; 1 steel traveling, 45' boom.—GIVIN.

5 traveling, 50 HP. Lambert elec. hoists.—CARPENTER.

15' traveling derrick.—CONCORD.

DREDGES

Hydraulic and dipper. Sale or charter.—GIVIN.

DRILLS

6 Ingersoll, type F-24, and 2 class "C" Little Giant rock drills.—BECKWITH.

Keystone traction No. 3 with placer equipment located at Prescott, Ariz.—L. J. HOHL, 525 Market St., San Francisco, Calif.

ELECTRIC LIGHTS

For sale at less than half cost. Sixty 300 C.P. D.C. 220 V. Nernst arc lamps, moon globes. In perfect running condition. Can be seen in use in our offices; $4 each. (Regular price, $9.50). Price includes drop lighting switch. Must sell as our voltage is 110 in new office. HILL PUBLISHING CO., 10th Ave. at 36th St., New York.

ENGINES, GAS

1 8 H.P. Vertical Type Fairbanks with sub-base.—SAMPSON

ENGINES, STEAM

75-H.P. Diesel, cyl. 14x24, excellent condition.—CONCORD.

FIRE ENGINES

2 Fire Engines, condition, first class.—HITNER'S.

FROGS & SWITCHES

11 split switches, 10 stiff keyed frogs, 15 low century switch stands, 18-15 ft. guard rails.—CONCORD.

GENERATORS

C. & C. 50-K.W. belted type generator, 650 revolutions, 230 volts, LaRoche Switchboard.—CONCORD.

HAMMERS

1 No. 4 Arnott.—PIPE.

HEATERS, FEED WATER

2 Blake 150 H.P. vertical water feed heaters.—CONCORD

HOISTING ENGINES

Lidgerwood 10x12 D.D.D.C. side by side drums, 33" diam.—MARINE.

Lidgerwood, 5x8 D.D.D.C. with boiler.—MARINE.

1 3 drum National hoist 10x12 with boiler and three independent winch-heads, excellent condition; 4 7x10 D.C.D.D. Lidgerwood with boilers; 1 Lidgerwood D.C.D.D. with swinger, skeleton 7x10, and 1 National D.C.D.D. with swinger, skeleton 7x10.—PIPE.

2 Lidgerwood 14x18, D.C. 3-tandem drum, reversible link motion; 1 Lidgerwood, 10x12, D.C. S.D. reversible link motion; 1 Lambert, 10x12, D.C. D.D. with boiler; 2 Lambert, 8x10, D.C. D.D. with Mass. boilers; 1 Lambert 7x10, D.C. D.D. with boiler; 1 Mundy, 7¼x10, D.C. D.D. with boiler; 1 Mundy, 6¼x10, D.C. D.D. with boiler; 1 O. & S. 6¼x8, D.C. D.D. with boiler. 2 Lidgerwood, 60 H.P. D.D. and swinger d.c. hoists.—HITNER'S.

9x10 Lidgerwood 3 drum—8¼x10 Lidgerwood D.D. with or without boiler or swinger. Other sizes.—GIVIN.

THREE HUNDRED hoists, 2 or 3 drum 7x10, 8¼x10, 9x10, 10x12, skeleton or boilers; 100 electric.—HOISTING.

Most items are signed with only part of the advertiser's name. Complete names and addresses in alphabetical order will be found under the heading "Addresses."

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Gurley with tripod, price $75.00—Room 1603, 15 William St., New York, N. Y.

Second-Hand Transits, Levels, etc. Bought, sold or exchanged. Send for list of Second-Hand Instruments. Get our prices before ordering. WILLIAMS, BROWN & EARLE, Inc., Engineering Supplies, Dept. E, 918 Chestnut St., Phila.

$175 K & E No. 5025 Precision 3 screw Y level, new, $133; $220 K & E 5040 Fine Tr., good working order, $125.—Guaranteed. 99 others. Rentals, repairs, supplies.—ARCHITECTS' & ENGINEERS' SUPPLY CO., Kansas City, Mo.

For Sale at a Bargain—High-grade, very accurate engineer's three leveling screw transit, also wye level made by Otto Fennel Söhne. For full description and price address Mrs. Sewall Truax, Highland Park, Ill.

K & E Y level 18", cost $140, used only a short time. No tripod $65; with new tripod $10 extra.—F. S. 13, Eng. News.

LOCOMOTIVES

[Standard Gauge]

1 Porter, Std. G., 20-ton, 12x18, saddle tank.—DOUGLAS.

50 locomotives, Switch, Mogul, Consolidation, Ten Wheel and Saddle Tank types.—SOUTHERN.

2—40 ton switchers, overhauled.—CONTRACTORS S. CO.

[36" Gauge]

10 10x16" Porter, Davenport and Vulcans.—SOUTHERN.

5 9x14" Porters.—SOUTHERN.

2—9x14 Baldwin saddle tank.—BECKWITH.

5—10x16 Vulcans, 1911-12.—CONTRACTORS S. CO.

5—11x16 Vulcan dinkies 1936 to 2039.—CARPENTER.

3—9x14 Porter dinkies 3146 to 3589.—CARPENTER.

A number of 9x14 and 10x16.—SCHMIDT.

[24" Gauge]

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4 and 8-wheel, 10, 15 and 20 tons capacity.—HOISTING MACHINERY Co., 48 Church St., New York City.

4 and 8 wheel 10 and 15 ton.—CONTRACTORS S. CO.

15-ton Browning, 4-wheel, S. G., 50' boom.—DALLETT.

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15 ton excellent condition, cheap.—STALLEY.

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5000 pcs. Lackawanna, Carnegie, Jones & Laughlin, various widths and lengths. Send your inquiries.—GRIMSHAW.

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1 No. 8, 1 No. 9, 1 No. 10 Cameron.—MARINE.

2 Davidson Simplex 9x9x11.—MARINE.

1 Worthington Duplex 6x4x6.—MARINE.

1 Worthington Duplex 10x6x10.—MARINE.

2 Snyder-Hughes Vacuum 10x14x12 Simplex.—MARINE.

1 No. 486 Emerson, 4" suc., 3" dis.—MARINE.

Piston and plunger, sizes up to 12x12x12.—NEW RIVER.

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Stillwell-Bierce pump, 7x4½x10, and 2 Deane Steam pumps, one No. 43,213, size 6x5¾x6, and one, 1½x2¾x4.—CONCORD.

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100 tons 85 lb. steel rails, A. S. C. E., Sec. No. 235, with joints. Hunt's report on request.—CONCORD.

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Tandem roller in first-class condition at a bargain.—Write F. S. 967, Eng. News.

[Wanted]

10-ton macadam roller. Send description and price to W 968, Eng. News.

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2—Complete Sewer Contractor's Plants, including compressors and locks.—LINES FLYNN.

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1 ¾-yd. revolving traction, rebuilt.—LINES FLYNN.

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2—65 ton, Bucyrus, 2½ Yd. dippers, $3000 each.—HITNER'S.

50 steam shovels, all makes and sizes; some used only two months; rent or sale. Rare bargains. Everything sold is guaranteed.—CONTRACTORS S. CO.

Thew "O" traction, high number, Mass. boiler.—DALLETT.

1 Model 0 Thew, built 1912, low price.—GIVIN.

1—Bucyrus, 18 B, traction revolving ⅞ yd.—GIVIN.

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1 Bucyrus 14 B, new last August.—SCHMIDT.

1 Marion Model 60, 1439 with 1 standard and 1 special boom, and 1 Model 75, 2112.—CARPENTER.

⅝ yd. Thew No. O, traction wheels; first-class, $2250.—GRIMSHAW.

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3000-gal. oil tank, 20 ft. 4 in., 8 ft. diam.—CONCORD.

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72 pairs 33-in. std. gage car wheels on axles.—CONCORD.

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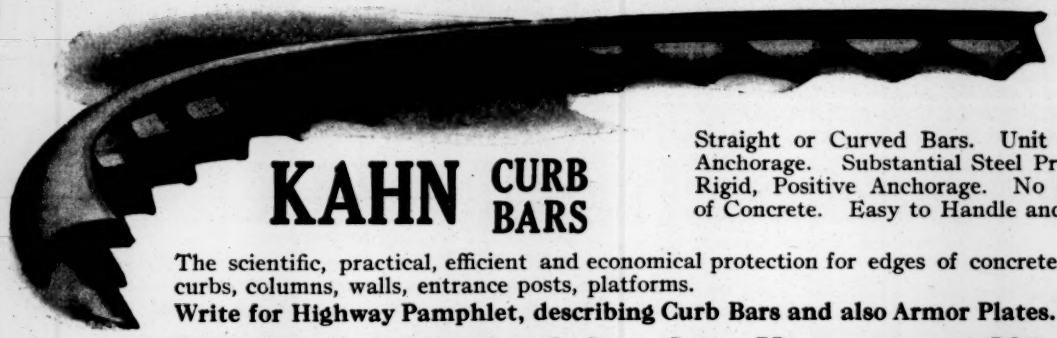

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The scientific, practical, efficient and economical protection for edges of concrete curbs, columns, walls, entrance posts, platforms.

Write for Highway Pamphlet, describing Curb Bars and also Armor Plates.

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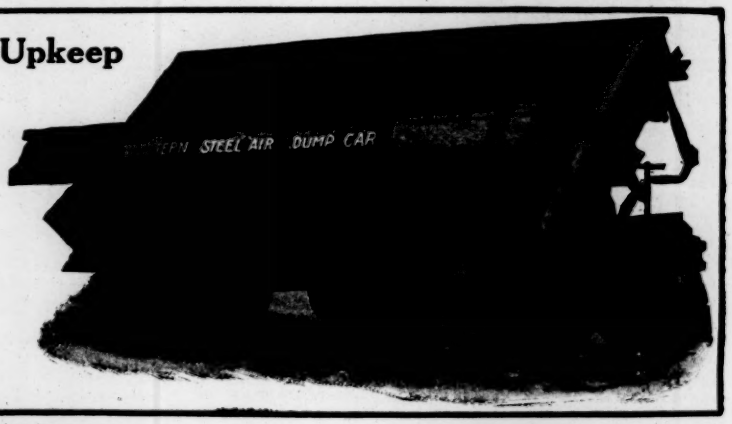

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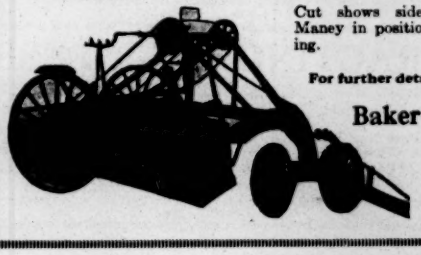

Cut shows side view of Maney in position for loading.

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